





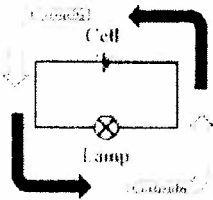
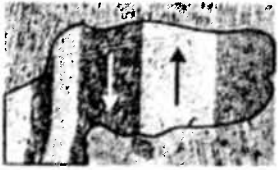
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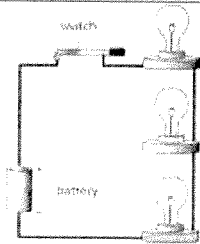

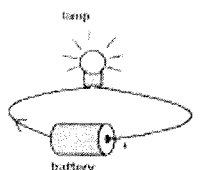
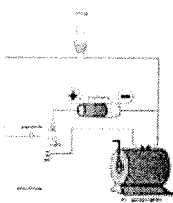
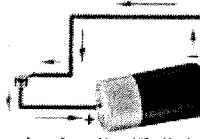
Unit 9: Electricity and Magnetism

Name _____ Date _____ Bell _____

Please define and illustrate the following terms:

	Written Definition	Illustration (a pictorial representation to help you recall the definition)
1. Resistance Page 632	The opposition to the movement of charges flowing through a material	
2. Static electricity Page 647	The buildup of charges on an object	
3. Electromagnetic Page 637	A solenoid (current carrying coil of wire) with a ferromagnetic core (strongly attracted to magnetic) that forms a magnet that can be turned on and off	<i>Electromagnet</i> 
<i>Electric</i> 4. Generators Page 684	A device which converts mechanical energy into electrical energy. It is the opposite of an elec. motor	
5. Electric motor Page 678	A device that uses an electric current to turn an axis. Turns electric energy into mechanical energy	

<p>13.Direct current (DC) Page 684</p>	<p>Charges that flow in one direction</p>	
<p>14.Insulator Page 630</p>	<p>Material which charges do not move freely such as Rubber, glass, sand, wood, plastic</p>	
<p>15.Magnetic Domain Page 617</p>	<p>A cluster of billions of atoms that all have magnetic fields that are lined up</p>	

6. Voltage Page 655	Unit of measurement of potential difference	
7. Series circuits Page 663	All the parts of an electric circuit are connected one after the other <i>Follow 1 path</i>	
8. Parallel circuits Page 664	Different parts of the circuit are on separate branches <i>2 or more paths</i>	
9. Electric current Page 629	The flow of charges through a material <i>Path is complete</i>	
10. Alternating current (AC) Page 684	A current that moves back and forth in a circuit	
11. Circuit Page 630	A complete path through which electric charges can flow	 Simple circuit with light
12. Conductor Page 630	Electric currents which move freely through materials such as copper, silver, iron, aluminum	